Englist.me

Vocabulary Builder Reference from...

Markus Fischer: A robot that flies like a bird | TED

Talk

https://www.ted.com/talks/markus_fischer_a_robot_th

at_flies_like_a_bird



Advanced Words Only

IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

Session 1: Word List

agile

adj. able to move quickly and easily, often in a way that is graceful and controlled

synonym: nimble, quick, flexible

(1) an **agile** mind, (2) **agile** in his movements

The **agile** development process allowed the team to make changes quickly.

rot

v. to decay, or cause something to decay, naturally and gradually

synonym: perish, decay, corrode

(1) begin to **rot**, (2) **rot** with age

Please refrigerate the meat, or it will **rot**.

aerodynamics

 the study of the motion of air, particularly its interaction with solid objects moving through it, such as aircraft or cars

synonym: aeromechanics, aeronautics, airflow

(1) **aerodynamics** research, (2) **aerodynamics** design The **aerodynamics** of the car allowed it to glide smoothly through the air.

gull

 a seabird with long wings, short legs, and usually black and white or grey and white feathers synonym: seagull

(1) a white sea gull, (2) gull family

Because **gulls** are gliding birds, their wings are long and slender.

swoop

glider

 to rapidly or forcefully descend upon something or someone from a great height or distance; to rush or pounce upon

synonym: dart, pounce

- (1) **swoop** down the water slide, (2) **swoop** up the escalator The eagle **swooped** down from the sky to catch its prey.
- a light aircraft or small, unpowered plane that is designed to glide and soar through the air using natural winds and or thermal currents

synonym: sailplane, soaring bird

(1) glider club, (2) paper- glider

The hang- **glider** enthusiast looked at the clear skies, anticipating a perfect day to take flight.

pneumatic

 adj. relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas

synonym: air-powered, gas-pressure, compressed-air

(1) pneumatic tire, (2) pneumatic cylinder

The mechanic used a **pneumatic** drill to repair the engine.

wingspan

n. the distance between the tips of a bird's wings when fully extended and in flight; often used to describe the size or scope of something, particularly about physical objects or structures

synonym: reach, spread, extent

(1) bird wingspan, (2) airplane wingspan

The bald eagle has an impressive wingspan of over 7 feet.

propulsion

n. the act or process of propelling or driving something forward, often using a motor, engine, or other

mechanical means

synonym: propelling, driving, actuation

(1) **propulsion** technology, (2) nuclear **propulsion**

The spacecraft's **propulsion** system helped it travel through space.

torsion

- a twisting force that can deform or damage a structure or material, typically produced by a rotational motion
 synonym: twisting, torsion, torque
- (1) torsion stress, (2) torsion angle

The **torsion** on the suspension bridge caused it to sway in the wind.

takeoff

 a departure, especially of airplanes; the initial ascent of an airplane as it becomes airborne

synonym: leaving, departure, liftoff

(1) vertical takeoff, (2) takeoff run

Our aircraft is now ready for takeoff.

Session 2: Spelling

1. pro____on technology

2. sw p down the water slide

3. bird wi____an

4. begin to r_t

5. g I family

6. nuclear pro____on

7. to___n stress

8. gl r club

 n. the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means

v. to rapidly or forcefully descend upon something or someone from a great height or distance; to rush or pounce upon

n. the distance between the tips of a bird's wings when fully extended and in flight; often used to describe the size or scope of something, particularly about physical objects or structures

v. to decay, or cause something to decay, naturally and gradually

 a seabird with long wings, short legs, and usually black and white or grey and white feathers

 n. the act or process of propelling or driving something forward, often using a motor, engine, or other mechanical means

 a twisting force that can deform or damage a structure or material, typically produced by a rotational motion

 a light aircraft or small, unpowered plane that is designed to glide and soar through the air using natural winds and or thermal currents

ANSWERS: 1. propulsion, 2. swoop, 3. wingspan, 4. rot, 5. gull, 6. propulsion, 7. torsion, 8. glider

9.	a white sea gl	n.	a seabird with long wings, short legs, and usually black and white or grey and white feathers
10.	aerics research	n.	the study of the motion of air, particularly its interaction with solid objects moving through it, such as aircraft or cars
11.	r_t with age	<i>v</i> .	to decay, or cause something to decay, naturally and gradually
12.	age in his movements	adj.	able to move quickly and easily, often in a way that is graceful and controlled
13.	taf run	n.	a departure, especially of airplanes; the initial ascent of an airplane as it becomes airborne
14.	aerics design	n.	the study of the motion of air, particularly its interaction with solid objects moving through it, such as aircraft or cars
15.	vertical taf	n.	a departure, especially of airplanes; the initial ascent of an airplane as it becomes airborne
16.	pnic cylinder	adj.	relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas
17.	an age mind	adj.	able to move quickly and easily, often in a way that is graceful and controlled
18.	pnic tire	adj.	relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas

ANSWERS: 9. gull, 10. aerodynamics, 11. rot, 12. agile, 13. takeoff, 14. aerodynamics, 15. takeoff, 16. pneumatic, 17. agile, 18. pneumatic

a twisting force that can deform or 19. to____n angle n. damage a structure or material, typically produced by a rotational motion 20. airplane wi___an the distance between the tips of a bird's n. wings when fully extended and in flight; often used to describe the size or scope of something, particularly about physical objects or structures a light aircraft or small, unpowered 21. paper-gl___r plane that is designed to glide and soar through the air using natural winds and or thermal currents to rapidly or forcefully descend upon 22. sw__p up the escalator something or someone from a great height or distance; to rush or pounce upon

ANSWERS: 19. torsion, 20. wingspan, 21. glider, 22. swoop

Session 3: Fill in the Blanks

1. v.	Please refrigerate the meat, or it will to decay, or cause something to decay, naturally and gradually
2. n.	Because are gliding birds, their wings are long and slender. a seabird with long wings, short legs, and usually black and white or grey and white feathers
3.	The mechanic used a drill to repair the engine.
adj	relating to or using air or gas under pressure, particularly in machinery or devices; operated by compressed air or gas
	The development process allowed the team to make changes quickly. able to move quickly and easily, often in a way that is graceful and controlled
5.	The eagle down from the sky to catch its prey.
<i>v</i> .	to rapidly or forcefully descend upon something or someone from a great height or distance; to rush or pounce upon
6.	Our aircraft is now ready for
n.	a departure, especially of airplanes; the initial ascent of an airplane as it becomes airborne
7.	The hang enthusiast looked at the clear skies, anticipating a perfect day to take flight.
n.	a light aircraft or small, unpowered plane that is designed to glide and soar through the air using natural winds and or thermal currents
AN	SWERS: 1. rot, 2. gulls, 3. pneumatic, 4. agile, 5. swooped, 6. takeoff, 7. glider

8.	The on the suspension bridge caused it to sway in the wind.
n.	a twisting force that can deform or damage a structure or material, typically produced by a rotational motion
9.	The of the car allowed it to glide smoothly through the air.
n.	the study of the motion of air, particularly its interaction with solid objects moving through it, such as aircraft or cars
10.	The spacecraft's system helped it travel through space. the act or process of propelling or driving something forward, often using a
	motor, engine, or other mechanical means
11.	The bald eagle has an impressive of over 7 feet.
n.	the distance between the tips of a bird's wings when fully extended and in flight; often used to describe the size or scope of something, particularly about physical objects or structures

ANSWERS: 8. torsion, 9. aerodynamics, 10. propulsion, 11. wingspan